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J. Barthel and R. Buchner	1473	High frequency permittivity and its use in the investigation of solution properties
E. Battistel, D. Bianchi	1483	Thermodynamics of immobilized ribonuclease A
D. Clause, D. Bouabdillah, N. Cochet, M. P. Luquet and S. Pulvin	1491	Ice crystallization induced by silver iodide and bacteria in microsize droplets dispersed within emulsions
A. de Keizer, T. Michalski and G. H. Findenegg	1495	Fluids in pores: experimental and computer simulation studies of multilayer adsorption, pore condensation and critical-point shifts
M. Sorai and D. N. Hendrickson	1503	Phase transitions arising from intramolecular electron-transfer in mixed-valence complexes
M. T. Rätzsch, H. Heklen, L. Tschersich and B. A. Wolf	1511	Application of continuous thermodynamics to polymer fractionation

W. A. Wakeham

- 1519 A coherent approach to the thermophysical properties of mixtures: hard work and software

IUPAC Recommendations on Nomenclature and Symbols and Technical Reports from Commissions

Steering Committee on
Biophysical Chemistry
(B. Zentgraf, M. Ringpfeil,
K. Martinek, V. V. Mozhaev and
T. J. Ahern)

- 1527 Practical importance of enzyme stability –
I: Natural sources of more stable enzymes;
II: Increase of enzyme stability by immobiliza-
tion and treatment with low molecular weight
reagents; III: Increase of enzyme stability by
protein engineering

Commission on Molecular
Structure and Spectroscopy
(J. F. J. Todd)

- 1541 Recommendations for nomenclature and
symbolism for mass spectroscopy (including
an appendix of terms used in vacuum
technology). (Recommendations 1991)

NOVEMBER

Plenary and Section lectures presented at the Nineteenth Congreso Latinoamericano de Química held in Buenos Aires, Argentina: 5–9 November 1990

D. H. R. Barton and D. Doller

- 1567 The selective functionalisation of saturated hydrocarbons: Gif and all that

A. Haas

- 1577 Periodic system of functional groups: formalism only or heuristic principles

E. L. Eliel, S. V. Frye,
E. R. Hortelano, Xiangning Chen
and Xu Bai

- 1591 Asymmetric synthesis and Cram's (cholate) rule

A. M. Castro Luna, A. E. Bolzán,
M. F. de Mele and A. J. Arvia

- 1599 The voltammetric electrooxidation of glucose and glucose residues formed on electro-dispersed platinum electrodes in acid electrolytes

IUPAC Recommendations on Nomenclature and Symbols and Technical Reports from Commissions

Commission on Polymer
Characterization and
Properties (D. R. Moore and
J. C. Seferis)

- 1609 Intrinsic characterization of continuous fibre reinforced thermoplastic composites—I: Toughness characterization of carbon fibre/polyether ether ketone (CF/PEEK) laminates

Commission on Microchemical
Techniques and Trace Analysis
(Z. Marczenko and R. Lobinski)

- 1627 Determination of molybdenum in biological materials

Commission on Microchemical
Techniques and Trace Analysis
(K. Biemann)

- 1637 Analytical techniques for trace organic compounds—III: Mass spectrometry in trace organic analysis

Commission on Electroanalytical
Chemistry (Y. Marcus and
T. Mussini)

- 1647 The extrapolation of EMF data to infinite dilution in non-aqueous and mixed solvents

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|---|------|---|
| Commission on Oils, Fats and Derivatives (P. W. Hendrikse and A. Dieffenbacher) | 1659 | Determination of benzo[a]pyrene in oils and fats by reversed phase high performance liquid chromatography. Results of a collaborative study and the standardized method |
| Commission on Water Chemistry (W. J. G. M. Peijnenburg) | 1667 | The use of quantitative structure-activity relationships for predicting rates of environmental hydrolysis processes |

DECEMBER

Plenary and Invited lectures presented at the XXII International Conference on Solution Chemistry held in Linz, Austria: 14–19 July 1991

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| G. Gritzner | iv | Preface |
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Plenary Lectures

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|-----------------|------|---|
| J. Burgess | 1677 | Solvation and reactivity of inorganic complexes |
| G. Somsen | 1687 | Interactions in solutions: A calorimetric study of pure and mixed solvent systems |
| P. W. Schindler | 1697 | A solution chemists view of surface chemistry |
| Z. Galus | 1705 | Influence of solvents on the rate of electrode reactions |
| V. Gutmann | 1715 | Fundamental considerations about liquid water |

Invited Lectures

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| B. M. Rode, S. M. Islam and Y. Yongyai | 1725 | Computational methods in solution chemistry |
| K. Heinzinger | 1733 | Molecular dynamics studies of platinum/water interfaces |
| H. Ohtaki and N. Fukushima | 1743 | Nucleation processes of NaCl and CsF crystals from aqueous solutions studied by molecular dynamics simulations |
| G. T. Hefter | 1749 | Fluoride solvation—the case of the missing ion |

IUPAC Recommendations on Nomenclature and Symbols and Technical Reports from Commissions

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| Commission on Electrochemistry (K. Tokuda and K. Niki) | 1759 | Kinetic parameters of the electrode reaction:
$2\text{Cl}^- \rightleftharpoons \text{Cl}_2 + 2\text{e}^-$ |
| Commission on Molecular Structure and Spectroscopy (J. G. Grasselli) | 1781 | JCAMP-DX, a standard format for exchange of infrared spectra in computer readable form (Recommendations 1991) |

Commission on Polymer
Characterization and Properties
(K. Nakayama, A. Furumiya,
T. Okamoto, K. Yagi,
A. Kaito, C. R. Choe, L. Wu,
G. Zhang, L. Xiu, D. Liu, T. Masuda
and A. Nakajima)

Commission on General Aspects
of Analytical Chemistry
(A. Hulanicki and S. Głab)

1793 Structure and mechanical properties of ultra-high molecular weight polyethylene deformed near melting temperature

1805 Present and future status of organic analytical reagents—Part III: Organic analytical reagents in electroanalysis

